AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS

1. (currently amended) An electronic component reliability determination method comprising:

executing an initialization process;

implementing a field condition determination process;

performing a field condition reliability analysis process for an operational parameter

of said electronic component; and

performing a reliability information management process.

- 2. (original) An electronic component reliability determination method of claim 1 further comprising sensing and tracking initial component startup time after shipping.
- 3. (original) An electronic component reliability determination method of claim 1 further comprising:

checking the integrity of non volatile memory;

initializing random access memory (RAM) with previously stored values; defining a reliability sampling period or interval; and

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starting background tasks.

4. (original) An electronic component reliability determination method of claim 1 wherein

said field condition determination process includes sensing operational parameter

information.

5. (original) An electronic component reliability determination method of claim 4 wherein

said operational parameter information includes a temperature measurement associated with a

component.

6. (original) An electronic component reliability determination method of claim 1 further

comprising establishing an interface for presenting reliability information to a user.

7. (original) An electronic component reliability determination method of claim 1 further

comprising determining a field condition adjustment factor value and instantaneous failure

rate value.

8. (original) An electronic component reliability determination method of claim 7 wherein

said instantaneous failure rate value is used to determine reliability of a component.

9. (original) An electronic component reliability determination method of claim 7 wherein

said field condition reliability analysis process includes determination of reliability index

values for components and a system.

10. (original) An electronic component reliability determination method of claim 1 further

comprising saving parameter information and present value of a reliability indicator.

11. (original) An electronic reliability determination method of claim 10 further comprising

performing a reliability information condensing process.

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12. (original) An electronic reliability determination method of claim 11 wherein said Reliability information condensing process comprises:

saving a reliability related reference value; receiving an updated reliability related value; determining a storage relationship value; and saving said storage relationship value.

13. (original) An electronic component reliability determination method of claim 1 wherein said field condition reliability analysis process includes determining a present value of a reliability indicator for a system.

14. (currently amended) An electronic component reliability determination system comprising:

a sensor for sensing operational parameter information;

a bus for communicating information including said operational parameter information;

a reliability processing component for performing instructions including instructions for ascertaining a field condition adjusted reliability value <u>for an operational parameter of said electronic component</u>; and

a memory for saving said operational parameter information and said field condition adjusted reliability value.

15. (original) An electronic component reliability determination system of Claim 14 wherein said sensor includes a diode inside a component and said diode is utilized to establish a temperature measurement indication.

16. (original) An electronic component reliability determination system of Claim 14 wherein said sensor includes an ambient temperature measuring device.

CSCO-7199 Serial No.: 10/603,382 Examiner: Suglo, J. 4 Group Art Unit: 2857 17. (original) An electronic component reliability determination system of Claim 14 wherein

said sensor includes air intake and air exhaust temperature measuring components.

18. (original) An electronic component reliability determination system of Claim 14 wherein

said reliability processing component uses a temperature measurement detected by said

sensor to calculate the temperature stress and a reliability adjustment factor.

19. (original) An electronic component reliability determination system of Claim 14 wherein

said reliability processing component performs instructions for calculating an instantaneous

failure rate.

20. (original) An electronic component reliability determination system of Claim 14 wherein

said reliability processing component performs instructions to determine an adjusted

instantaneous reliability value.

21. (original) An electronic component reliability determination system of Claim 14 wherein

information is stored in said memory component in a reliability information condensing

process format.

22. (currently amended) A computer readable medium with instructions embedded therein for

causing a processor implement a reliability determination process including:

an initialization module for directing implementation of an initialization process;

a reliability determination background module for directing a field condition

determination process and a filed condition reliability analysis process for an operational

parameter of a component; and

a reliability determination runtime module for interfacing with an operating system.

23. (original) A computer readable medium of claim 22 wherein said initialization module

includes instructions for:

checking the integrity of non volatile memory;

initializing random access memory (RAM) with previously stored values;

defining a reliability sampling period or interval; and

starting background tasks.

24. (original) A computer readable medium of claim 22 wherein said background module

includes instructions for implementing reliability associated firmware activities.

25. (original) A computer readable medium of claim 22 wherein said background module

divides background tasks into multiple background threads that operate separately.

26. (original) A computer readable medium of claim 22 wherein said runtime module

performs reliability determination activities including calculation of instantaneous failure

rates and cumulative reliability index values.

27. (currently amended) A communication device comprising:

means for controlling information communication;

means for determining component reliability adjusted in accordance with field

condition impacts for an operational parameter of said component; and

means for organizing information associated with said component reliability.

28. (original) A communication device of claim 27 further comprising a means for

ascertaining field condition information.

29. (original) A communication device of claim 27 wherein said field condition information

includes a temperature measurement.

30. (original) A communication device of claim 27 wherein said means for determining

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Serial No.: 10/603,382 Examiner: Suglo, J. 6 Group Art Unit: 2857 component reliability adjusted in accordance with field condition impacts determines an instantaneous failure rate and a cumulative reliability indication.

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